CCAAGTTCTACCTCATGTTTGGAGGATCTTGCTAGCTATGGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGG
GCTGTGCGGGAACTCCTTTTCAGGAGGGCAGCCTTCATCCACAGATGCTCCTAAGGCTTGGAATTATGAATT
GCCTGCAACAAATTATGAGACCCAAGACTCCCATAAAGCTGGACCCATTGGCATTCTCTTTGAACTAGTGCA
TATCTTTCTCTATGTGGTACAGCCGCGTGATTTCCCAGAAGATACTTTGAGAAAATTCTTACAGAAGGCATA
TGAATCCAAAATTGATTATGACA**AGCCAGAAACTGTAATCTTAGGTCTAAAGA**TTGTCTACTATGAAGCAGG
GATTATTCTATGCTGTGTCCTGGGGCTGCTGTTTATTATTCTGATGCCTCTGGTGGGGTATTTCTTTTGTAT
GTGTCGTTGCTGTAACAAATGTGGTGGAGAAATGCACCAGCGACAGAAGGAAAATGGGCCCTTCCTGAGGAA
ATGCTTTGCAATCTCCCTGTTGGTGATTTGTATAATAATAAGCATTGGCATCTTCTATGGTTTTGTGGCAAA
TCACCAGGTAAGAACCCGGATCAAAAGGAGTCGGAAACTGGCAGATAGCAATTTCAAGGACTTGCGAACTCT
CTTGAATGAAACTCCAGAGCAAATCAAATATATATTGGCCCAGTACAACACTACCAAGGACAAGGCGTTCAC
AGATCTGAACAGTATCAATTCAGTGCTAGGAGGCGGAATTCTTGACCGACTGAGACCCAACATCATCCCTGT
TCTTGATGAGATTAAGTCCATGGCAACAGCGATCAAGGAGACCAAAGAGGCGTTGGAGAACATGAACAGCAC
CTTGAAGAGCTTGCACCAACAAAGTACACAGCTTAGCAGCAGTCTGACCAGCGTGAAAACTAGCCTGCGGTC
ATCTCTCAATGACCCTCTGTGCTTGGTGCATCCATCAAGTGAAACCTGCAACAGCATCAGATTGTCTCTAAG
CCAGCTGAATAGCAACCCTGAACTGAGGCAGCTTCCACCCGTGGATGCAGAACTTGACAACGTTAATAACGT
TCTTAGGACAGATTTGGATGGCCTGGTCCAACAGGGCTATCAACCTCCTTAATGATATACCTGACAGAGTACA
ACGCCAAACCACGACTGTCGTAGCAGGTATCAAAAGGGTCTTGAATTCCATTGGTTCAGATATCGACAATGT
AACTCAGCGTCTTCCTATTCAGGATATACTCTCAGCATTCTCTGTTTATGTTAATAACACTGAAAGTTACAT
CCACAGAAATTTACCTACATTGGAAGAGTATGATTCATACTGGTGGCTGGGTGGCCTGGTCATCTGCTCTCT
GCTGACCCTCATCGTGATTTTTTACTACCTGGGCTTACTGTGTGGCGTGTGCGGCTATGACAGGCATGCCAC
CCCGACCACCCGAGGCTGTGTCTCCAACACCGGAGGCGTCTTCCTCATGGTTGGAGTTGGATTAAGTTTCCT
CTTTTGCTGGATATTGATGATCATTGTGGTTCTTACCTTTGTCTTTGGTGCAAATGTGGAAAAACTGATCTG
TGAACCTTACACGAGCAAGGAATTATTCCGGGTTTTGGATACACCCTACTTACTAAATGAAGACTGGGAATA
CTATCTCTCTGGGAAGCTATTTAATAAATCAAAAATGAAGCTCACTTTTGAACAAGTTTACAGTGACTGCAA
AAAAAATAGAGGCACTTACGGCACTCTTCACCTGCAGAACAGCTTCAATATCAGTGAACATCTCAACATTAA
TGAGCATACTGGAAGCATAAGCAGTGAATTGGAAAGTCTGAAGGTAAATCTTAATATCTTTCTGTTGGGTGC
AGCAGGAAGAAAAAACCTTCAGGATTTTGCTGCTTGTGGAATAGACAGAATGAATTATGACAGCTACTTGGC
TCAGACTGGTAAATCCCCCGCAGGAGTGAATCTTTTATCATTTGCATATGATCTAGAAGCAAAAGCAAACAG
TTTGCCCCCAGGAAATTTGAGGAACTCCCTGAAAAGAGATGCACAAACTATTAAAACAATTCACCAGCAACG
AGTCCTTCCTATAGAACAATCACTGAGCACTCTATACCAAAGCGTCAAGATACTTCAACGCACAGGGAATGG
ATTGTTGGAGAGAGTAACTAGGATTCTAGCTTCTCTGGATTTTGCTCAGAACTTCATCACAAACAATACTTC
CTCTGTTATTATTGAGGAAACTAAGAAGTATGGGAGAACAATAATAGGATATTTTGAACATTATCTGCAGTG
GATCGAGTTCTCTATCAGTGAGAAAGTGGCATCGTGCAAACCTGTGGCCACCGCTCTAGATACTGCTGTTGA
TGTCTTTCTGTGTAGCTACATTATCGACCCCTTGAATTTGTTTTGGTTTGGCATAGGAAAAGCTACTGTATT
TTTACTTCCGGCTCTAATTTTTGCGGTAAAACTGGCTAAGTACTATCGTCGAATGGATTCGGAGGACGTGTA
CGATGATGTTGAAACTATACCCATGAAAAATATGGAAAATGGTAATAATGGTTATCATAAAGATCATGTATA
TGGTATTCACAATCCTGTTATGACAAGCCCATCACAACATTGATAGCTGATGTTGAAACTGCTTGAGCATCA
GGATACTCAAAGTGGAAAGGATCACAGATTTTTGGTAGTTTCTGGGTCTACAAGGACTTTCCAAATCCAGGA
GCAACGCCAGTGGCAACGTAGTGACTCAGGCGGGCACCAAGGCAACGGCACCATTGGTCTCTGGGTAGTGCT
TTAAGAATGAACACAATCACGTTATAGTCCATGGTCCATCACTATTCAAGGATGACTCCCTCCCTTCCTGTC
TATTTTTGTTTTTTTACTTTTTTACACTGAGTTTCTCTATTTAGACACTACAACATATGGGGTGTTTGTTCCCAT
TGGATGCATTTCTATCAAAACTCTATCAAATGTGATGGCTAGATTCTAACATATTGCCATGTGTGGAGTGTG
CTGAACACACACCAGTTTACAGGAAAGATGCATTTTGTGTACAGTAAACGGTGTATATACCTTTTGTTACCA
CAGAGTTTTTTAAACAAATGAGTATTATAGGACTTTCTTCTAAATGAGCTAAATAAGTCACCATTGACTTCT
TGGTGCTGTTGAAAATAATCCATTTTCACTAAAAGTGTGTAAACCTACAGCATATTCTTCACGCAGAGATT
TTCATCTATTATACTTTATCAAAGATTGGCCATGTTCCACTTGGAAATGGCATGCAAAAGCCATCATAGAGA
AACCTGCGTAACTCCATCTGACAAATTCAAAAGAGAGAGAGAGATCTTGAGAGAGAAATGCTGTTCGTTCAA
AAGTGGAGTTGTTTTAACAGATGCCAATTACGGTGTACAGTTTAACAGAGTTTTCTGTTGCATTAGGATAAA
CATTAATTGGAGTGCAGCTAACATGAGTATCATCAGACTAGTATCAAGTGTTCTAAAATGAAATATGAGAAG
ATCCTGTCACAATTCTTAGATCTGGTGTCCAGCATGGATGAAACCTTTGAGTTTGGTCCCTAAATTTGCATG
AAAGCACAAGGTAAATATTCATTTGCTTCAGGAGTTTCATGTTGGATCTGTCATTATCAAAAGTGATCAGCA
ATGAAGAACTGGTCGGACAAAATTTAACGTTGATGTAATGGAATTCCAGATGTAGGCATTCCCCCCAGGTCT
TTTCATGTGCAGATTGCAGTTCTGATTCATTTGAATAAAAAGGAACTTGG

FIGURE 1

MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVVQPRDFPEDT
LRKFLQKAYESKIDYD**KPETVILGLK**IVYYE*AGTILCCVLGLLETTIMPLV*GYFFCMCRCCNKCGGEMHQRQKEN
GPFLRKC*FAISLLVTCTTTSIGTPYGFVA*NHQVRTRIKRSRKLADSNFKDLRTLLNETPEQIKYILAQYNTTKDK
AFTDLNSINSVLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSLRS
SLNDPLCLVHPSSETCNSIRLSLSQLNSNPELRQLPPVDAELDNVNNVLRTDLDGLVQQGYQSLNDIPDRVQRQT
TTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNTESYIHRNLPTLEEYDSYWW*LGGLMVICSLLILLVI*
*FYYL*GLLCGVCGYDRHATPTTRGCVSNTGG*VFLMVGVGLSFLFCWILMLIVVL*TFVFGANVEKLICEPYTSKELF
RVLDTPYLLNEDWEYYLSGKLFNKSKMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELES
LKVNLNIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFAYDLEAKANSLPPGNLRNSLKRDAQ
TIKTIHQQRVLPIEQSLSTLYQSVKILQRTGNGLLERVTRILASLDFAQNFITNNTSSVIIEETKKYGRTIIGYF
EHYLQWIEFSISEKVASCKPVATALDTAVDVFLCSYIIDPLN*LFWFGIGKATVFLLPALIFAVKT*AKYYRRMDSE
DVYDDVETIPMKNMENGNNGYHKDHVYGIHNPVMTSPSQH.

FIGURE 2

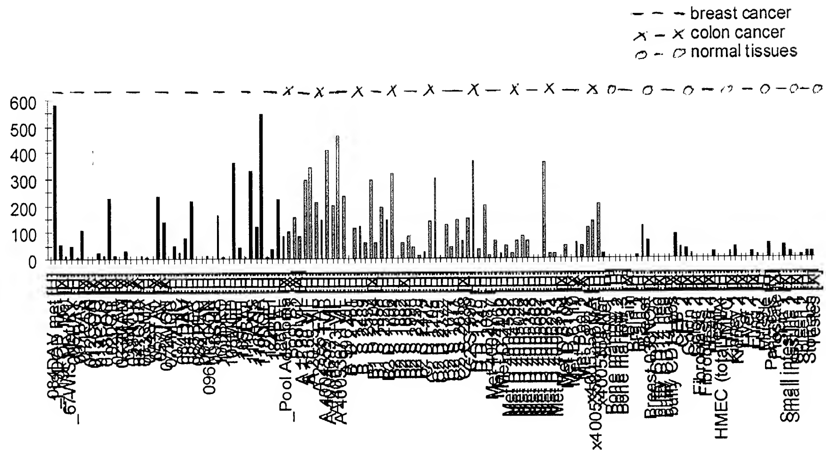
breast cancer
colon cancer
normal tissues
600
500
400
300
200
100
0
Pool Adenoma
Bone marrow
HMEC (total RNA)
Small intestine
Pancreas
Stomach
Testes

FIGURE 3

CCAAGTTCTACCTCATGTTTGGAGGATCTTGCTAGCTATGGCCCTCGTACTCGGCTCCCTGTTGCTGCTGGG
GCTGTGCGGGAACTCCTTTTCAGGAGGGCAGCCTTCATCCACAGATGCTCCTAAGGCTTGGAATTATGAATT
GCCTGCAACAAATTATGAGACCCAAGACTCCCATAAAGCTGGACCCATTGGCATTCTCTTTGAACTAGTGCA
TATCTTTCTCTATGTGGTACAGCCGCGTGATTTCCCAGAAGATACTTTGAGAAAATTCTTACAGAAGGCATA
TGAATCCAAAATTGATTATGACATTGTCTACTATGAAGCAGGGATTATTCTATGCTGTGTCCTGGGGCTGCT
GTTTATTATTCTGATGCCTCTGGTGGGGTATTTCTTTTGTATGTGTCGTTGCTGTAACAAATGTGGTGGAGA
AATGCACCAGCGACAGAAGGAAAATGGGCCCTTCCTGAGGAAATGCTTTGCAATCTCCCTGTTGGTGATTTG
TATAATAATAAGCATTGGCATCTTCTATGGTTTTGTGGCAAATCACCAGGTAAGAACCCGGATCAAAAGGAG
TCGGAAACTGGCAGATAGCAATTTCAAGGACTTGCGAACTCTCTTGAATGAAACTCCAGAGCAAATCAAATA
TATATTGGCCCAGTACAACACTACCAAGGACAAGGCGTTCACAGATCTGAACAGTATCAATTCAGTGCTAGG
AGGCGGAATTCTTGACCGACTGAGACCCAACATCATCCCTGTTCTTGATGAGATTAAGTCCATGGCAACAGC
GATCAAGGAGACCAAAGAGGCGTTGGAGAACATGAACAGCACCTTGAAGAGCTTGCACCAACAAAGTACACA
GCTTAGCAGCAGTCTGACCAGCGTGAAAACTAGCCTGCGGTCATCTCTCAATGACCCTCTGTGCTTGGTGCA
TCCATCAAGTGAAACCTGCAACAGCATCAGATTGTCTCTAAGCCAGCTGAATAGCAACCCTGAACTGAGGCA
GCTTCCACCCGTGGATGCAGAACTTGACAACGTTAATAACGTTCTTAGGACAGATTTGGATGGCCTGGTCCA
ACAGGGCTATCAATCCCTTAATGATATACCTGACAGAGTACAACGCCAAACCACGACTGTCGTAGCAGGTAT
CAAAAGGGTCTTGAATTCCATTGGTTCAGATATCGACAATGTAACTCAGCGTCTTCCTATTCAGGATATACT
CTCAGCATTCTCTGTTTATGTTAATAACACTGAAAGTTACATCCACAGAAATTTACCTACATTGGAAGAGTA
TGATTCATACTGGTGGCTGGGTGGCCTGGTCATCTGCTCTCTGCTGACCCTCATCGTGATTTTTTACTACCT
GGGCTTACTGTGTGGCGTGTGCGGCTATGACAGGCATGCCACCCCGACCACCCGAGGCTGTGTCTCCAACAC
CGGAGGCGTCTTCCTCATGGTTGGAGTTGGATTAAGTTTCCTCTTTTGCTGGATATTGATGATCATTGTGGT
TCTTACCTTTGTCTTTGGTGCAAATGTGGAAAAACTGATCTGTGAACCTTACACGAGCAAGGAATTATTCCG
GGTTTTGGATACACCCTACTTACTAAATGAAGACTGGGAATACTATCTCTCTGGGAAGCTATTTAATAAATC
AAAAATGAAGCTCACTTTTGAACAAGTTTACAGTGACTGCAAAAAAAATAGAGGCACTTACGGCACTCTTCA
CCTGCAGAACAGCTTCAATATCAGTGAACATCTCAACATTAATGAGCATACTGGAAGCATAAGCAGTGAATT
GGAAAGTCTGAAGGTAAATCTTAATATCTTTCTGTTGGGTGCAGCAGGAAGAAAAAACCTTCAGGATTTTGC
TGCTTGTGGAATAGACAGAATGAATTATGACAGCTACTTGGCTCAGACTGGTAAATCCCCCGCAGGAGTGAA
TCTTTTATCATTTGCATATGATCTAGAAGCAAAAGCAAACAGTTTGCCCCCAGGAAATTTGAGGAACTCCCT
GAAAAGAGATGCACAAACTATTAAAACAATTCACCAGCAACGAGTCCTTCCTATAGAACAATCACTGAGCAC
TCTATACCAAAGCGTCAAGATACTTCAACGCACAGGGAATGGATTGTTGGAGAGAGTAACTAGGATTCTAGC
TTCTCTGGATTTTGCTCAGAACTTCATCACAAACAATACTTCCTCTGTTATTATTGAGGAAACTAAGAAGTA
TGGGAGAACAATAATAGGATATTTTGAACATTATCTGCAGTGGATCGAGTTCTCTATCAGTGAGAAAGTGGC
ATCGTGCAAACCTGTGGCCACCGCTCTAGATACTGCTGTTGATGTCTTTCTGTGTAGCTACATTATCGACCC
CTTGAATTTGTTTTGGTTGGCATAGGAAAAGCTACTGTATTTTTACTTCCGGCTCTAATTTTTGCGGTAAA
ACTGGCTAAGTACTATCGTCGAATGGATTCGGAGGACGTGTACGATGATGTTGAAACTATACCCATGAAAAA
TATGGAAAATGGTAATAATGGTTATCATAAAGATCATGTATATGGTATTCACAATCCTGTTATGACAAGCCC
ATCACAACATTGATAGCTGATGTTGAAACTGCTTGAGCATCAGGATACTCAAAGTGGAAAGGATCACAGATT
TTTGGTAGTTTCTGGGTCTACAAGGACTTTCCAAATCCAGGAGCAACGCCAGTGGCAACGTAGTGACTCAGG
CGGGCACCAAGGCAACGGCACCATTGGTCTCTGGGTAGTGCTTTAAGAATGAACACAATCACGTTATAGTCC
ATGGTCCATCACTATTCAAGGATGACTCCCTCCCTTCCTGTCTATTTTTGTTTTTTACTTTTTTACACTGAG
TTTCTATTTAGACACTACAACATATGGGGTGTTTGTTCCCATTGGATGCATTTCTATCAAAACTCTATCAAA
TGTGATGGCTAGATTCTAACATATTGCCATGTGTGGAGTGTGCTGAACACACACCAGTTTACAGGAAAGATG
CATTTTGTGTACAGTAAACGGTGTATATACCTTTTGTTACCACAGAGTTTTTTAAACAAATGAGTATTATAG
GACTTTCTTCTAAATGAGCTAAATAAGTCACCATTGACTTCTTGGTGCTGTTGAAAATAATCCATTTTCACT
AAAAGTGTGTGAAACCTACAGCATATTCTTCACGCAGAGATTTTCATCTATTATACTTTATCAAAGATTGGC
CATGTTCCACTTGGAAATGGCATGCAAAAGCCATCATAGAGAAACCTGCGTAACTCCATCTGACAAATTCAA
AAGAGAGAGAGAGATCTTGAGAGAGAAATGCTGTTCGTTCAAAAGTGGAGTTGTTTTAACAGATGCCAATTA
CGGTGTACAGTTTAACAGAGTTTTCTGTTGCATTAGGATAAACATTAATTGGAGTGCAGCTAACATGAGTAT
CATCAGACTAGTATCAAGTGTTCTAAAATGAAATATGAGAAGATCCTGTCACAATTCTTAGATCTGGTGTCC
AGCATGGATGAAACCTTTGAGTTTGGTCCCTAAATTTGCATGAAAGCACAAGGTAAATATTCATTTGCTTCA
GGAGTTTCATGTTGGATCTGTCATTATCAAAAGTGATCAGCAATGAAGAACTGGTCGGACAAAATTTAACGT
TGATGTAATGGAATTCCAGATGTAGGCATTCCCCCCAGGTCTTTTCATGTGCAGATTGCAGTTCTGATTCAT
TTGAATAAAAAGGAACTTGG

FIGURE 4

MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVVQPRDFPEDT
LRKFLQKAYESKIDYDIVYYEAGIILCCVLGLLFTILMPLVGYFFCMCRCCNKCGGEMHQRQKENGPFLRKCEAI
GLDVICTITSIGIFVGFVANHQVRTRIKRSRKLADSNFKDLRTLLNETPEQIKYILAQYNTTKDKAFTDLNSINS
VLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSLRSSLNDPLCLVH
PSSETCNSIRLSLSQLNSNPELRQLPPVDAELDNVNNVLRTDLDGLVQQGYQSLNDIPDRVQRQTTTVVAGIKRV
LNSIGSDIDNVTQRLPIQDILSAFSVYVNNTESYIHRNLPTLEEYDSYWWLGGLVICGLLTLIVTFYVLGLLCGV
CGYDRHATPTTRGCVSNTGGVFLMVGVGLSFLFCWILMIVVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLN
EDWEYYLSGKLFNKSKMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELESLKVNLNIFLL
GAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFAYDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRV
LPIEQSLSTLYQSVKILQRTGNGLLERVTRILASLDFAQNFITNNTSSVIIEETKKYGRTIIGYFEHYLQWIEFS
ISEKVASCKPVATALDTAVDVFLCSYIIDPLNLFWFGICKATVETHPALTFAVKLAKYYRRMDSEDVYDDVETIP
MKNMENGNNGYHKDHVYGIHNPVMTSPSQH

FIGURE 5